

1. A control system comprising:

receiver adapted to receive detection data transmitted from a motion detector provided for movement with a performer, the detection data representing a state of a motion of the performer detected via a sensor that is included in said motion detector with the moving performer;

a performance apparatus adapted to carry out a performance of a tone on the basis of performance data;

an analyzer coupled with said receiver and adapted to analyze the motion of the performer on the basis of the detection data and thereby generate a plurality of analyzed data; and

a controller coupled with said performance apparatus and said analyzer and adapted to control the performance of a tone by said performance apparatus in accordance with the plurality of analyzed data generated by said analyzer.

- 2. A control system as claimed in claim 1 wherein said of controller controls a tone volume the tone to be performed by said performance apparatus, in accordance with the plurality of analyzed data generated by said analyzer.
- 3. A control system as claimed in claim 1 wherein said controller controls a tempo of the tone to be performed by

said performance apparatus, in accordance with the analyzed data.

- 4. A control system as claimed in claim 1 wherein said controller controls performance timing of the tone to be performed by said performance apparatus, in accordance with the analyzed data.
- 5. A control system as claimed in claim 1 wherein said controller controls a tone color of the tone to be performed by said performance apparatus, in accordance with the plurality of analyzed data.
- 6. A control system as claimed in claim 1 wherein said controller controls an effect of the tone to be performed by said performance apparatus, in accordance with the plurality of analyzed data.
- 7. A control system as claimed in claim 1 wherein said controller controls a tone pitch of the tone to be performed by said performance apparatus, in accordance with the plurality of analyzed data.
- 8. A control system as claimed in claim 1 wherein the sensor included in said motion detector is an acceleration sensor, and the detection data is data indicative of acceleration of the motion detected via the acceleration sensor.

- 9. A control system as claimed in claim 8 wherein the plurality of analyzed data generated by said analyzer include at least peak point data indicative of an occurrence time of a local peak in a time-varying waveform of absolute acceleration of the motion.
- 10. A control system as claimed in claim 8 wherein the plurality of analyzed data generated by said analyzer include at least peak value data indicative of a height of a local peak in a time-varying waveform of absolute acceleration of the motion.
- 11. A control system as claimed in claim 8 wherein the plurality of analyzed data generated by said analyzer include at least peak Q value data indicative of acuteness of a local peak in a time-varying waveform of absolute acceleration of the motion.
 - 12. A control system as claimed in claim 8 wherein the plurality of analyzed data generated by said analyzer include at least peak interval data indicative of a time interval between local peaks in a time-varying waveform of absolute acceleration of the motion.
 - 13. A control system as claimed in claim 8 wherein the plurality of analyzed data generated by said analyzer include at least depth data indicative of a depth of a bottom between adjacent local peaks in a time-varying



- 14. A control system as claimed in claim 8 wherein the plurality of analyzed data generated by said analyzer include at least high-frequency-component intensity data indicative of intensity of a high-frequency component at a local peak in a time-varying waveform of absolute acceleration of the motion.
- 15. A control system as claimed in claim 1 wherein said motion detector is held by a hand of the performer.
- 16. A control system as claimed in claim 1 wherein said motion detector is attached to a body of the performer.
- 17. A control system as claimed in claim 1 wherein the performance data is automatic performance data, and said performance apparatus generates a tone on the basis of the automatic performance data.
- 18. A control system as claimed in claim 1 which further comprises a transmitter adapted to transmit, to said motion detector, guide data for providing a guide or assistance as to a motion to be made by the performer.
- 19. A control system as claimed in claim 1 wherein said performer is a human being.

- 20. A control system as claimed in claim 1 wherein said performer is an animal.
- 21. A control system as claimed in claim 1 wherein said performer is a stand-alone intelligent robot.
- 22. A motion detector for movement with a performer comprising:
- a sensor adapted to detect a plurality of states of a motion of the performer; and
- a transmitter coupled with said sensor and adapted to transmit detection data representing each of said plurality of states detected via said sensor.
- 23. A motion detector as claimed in claim 22 wherein said sensor detects acceleration of the motion in directions of two axes as said plurality of states.
- 24. A motion detector as claimed in claim 22 wherein said sensor detects acceleration of the motion in directions of three axes as said plurality of states.
- 25. A motion detector as claimed in claim 22 wherein said motion detector is held by a hand of the performer.
- 26. A motion detector as claimed in claim 22 wherein said motion detector is attached to a body of the performer.

- 27. A motion detector as claimed in claim 22 which further comprises a receiver adapted to receive guide data for providing a guide or assistance as to a motion to be made by the performer.
- 28. A motion detector as claimed as claimed 22 wherein said performer is a human being.
- 29. A motion detector as claimed in claim 22 wherein said performer is an animal.
- 30. A motion detector as claimed in claim 22 wherein said performer is a stand-alone intelligent robot.
- 31. A motion detector as claimed in claim 22 which further comprises an operator for generating instruction data, and wherein said transmitter is further adapted to transmit the instruction data.
 - 32. A motion detector as claimed in claim 22 which further comprises a light-emitting device adapted to be subjected to light emission control in accordance with said plurality of states detected via said sensor.

33. A control system comprising:

a receiver adapted to receive a plurality of detection data transmitted from a single motion detector provided for movement with a performer, each of the detection data



representing a state of a motion of the performer detected via a sensor that is included in said motion detector moving with the performer;

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- a performance apparatus adapted to carry out a performance of a tone on the basis of performance data; and
- a controller coupled with said receiver and said performance apparatus and adapted to control said performance of a tone by said performance apparatus in accordance with each of the detection data received via said receiver.
- 34. A control system as claimed in claim 33 wherein control of said performance of a tone by said controller controls a tone volume of the tone to be performed by said performance apparatus.
- 35. A control system as claimed in claim 33 wherein control of said performance of a tone by said controller controls a tempo of the tone to be performed by said performance apparatus.
- 36. A control system as claimed in claim 33 wherein control of said performance of a tone by said controller controls performance timing of the tone to be performed by said performance apparatus.
- 37. A control system as claimed in claim 33 wherein

control of said performance of a tone by said controller controls a tone color of the tone to be performed by said performance apparatus.

- 38. A control system as claimed in claim 33 wherein control of said performance of a tone by said controller controls an effect of the tone to be performed by said performance apparatus.
- 39. A control system as claimed in claim 33 wherein control of said performance of a tone by said controller controls a tone pitch of the tone to be performed by said performance apparatus.
- 40. A control system as claimed in claim 33 wherein the performance data is automatic performance data, and said performance apparatus performs the tone on the basis of the automatic performance data.
- 41. A control system as claimed in claim 33 wherein the plurality of detection data represent acceleration of the motion in directions of two axes.
- 42. A control system as claimed in claim 33 wherein the plurality of detection data represent acceleration of the motion in directions of three axes.
- 43. A control system as claimed in claim 33 wherein said

motion detector is held by a hand of the performer.

- 44. A control system as claimed in claim 33 wherein said motion detector is attached to a body of the performer.
- 45. A control system as claimed in claim 33 which further comprises a transmitter adapted to receive guide data for providing a guide or assistance as to a motion to be made by the performer.
- 46. A control system as claimed in claim 33 wherein said performer is a human being.
- 47. A control system as claimed in claim 33 wherein said performer is an animal.
- 48. A control system as claimed in claim 33 wherein said performer is a stand-alone intelligent robot.
- 49. A control system as claimed in claim 33 wherein said receiver is further adapted to receive instruction data transmitted from said motion detector, the instruction data being data instructing at least a tone color, and wherein said performance apparatus is further adapted to set, on the basis of the instruction data received via said receiver, a tone color of the tone to be performed.
- 50. A control system as claimed in claim 49 wherein the

sensor included in said motion detector is an acceleration sensor, and the detection data is data indicative of acceleration of the motion detected via the acceleration sensor, and

wherein said performance apparatus performs a tone of a tone color set on the basis of the instruction data, at a time of a peak in the detected acceleration represented by the detection data.

51. A control system comprising:

a receiver adapted to receive detection data transmitted from a plurality of motion detectors provided for movement with a performer, each of the detection data representing a state of a motion of the performer detected via a sensor that is included in a corresponding one of said motion detectors moving with the performer;

a performance apparatus adapted to carry out a performance of a tone on the basis of performance data; and

a controller coupled with said receiver and said performance apparatus and adapted to control said performance of a tone by said performance apparatus in accordance with each of the detection data received from said motion detectors.

52. A control system as claimed in claim 51 wherein control of the tone by said controller controls a tone volume of the tone to be performed by said performance

apparatus.

- 53. A control system as claimed in claim 51 wherein control of the tone by said controller controls a tempo of the tone to be performed by said performance apparatus.
- 54. A control system as claimed in claim 51 wherein control of the tone by said controller controls performance timing of the tone to be performed by said performance apparatus.
- 55. A control system as claimed in claim 51 wherein control of the tone by said controller controls a tone color of the tone to be performed by said performance apparatus.
- 56. A control system as claimed in claim 51 wherein control of the tone by said controller controls an effect of the tone to be performed by said performance apparatus.
- 57. A control system as claimed in claim 51 wherein control of the tone by said controller controls a tone pitch of the tone to be performed by said performance apparatus.
- 58. A control system as claimed in claim 51 wherein the performance data is automatic performance data, and said

performance apparatus performs a tone on the basis of the automatic performance data.

- 59. A control system as claimed in claim 58 wherein the automatic performance data comprises data of a plurality of parts, and wherein said controller controls a performance of tones of at least two of the parts in accordance with the detection data received from different ones of said motion detectors.
- 60. A control system as claimed in claim 59 wherein said controller creates single general detection data on the basis of a plurality of the detection data received from the different motion detectors, and said controller controls the performance of tones of the at least two parts in accordance with the created general detection data.
- 61. A control system as claimed in claim 59 wherein said controller performs separate control of respective performance tempos of the tones of the at least two parts in accordance with the detection data received from the different motion detectors.
- 62. A control system as claimed in claim 61 which further comprises a storage device adapted to store therein display data separately for individual ones of the parts, and

wherein said controller reads out the display data

from said storage device in accordance with separate performance tempo control for the at least two parts and causes a display device to display visual images based on the read-out display data.

63. A control system as claimed in claim 59 which further comprises a storage device adapted to store therein, separately for individual ones of the parts, tempo control data for controlling a performance tempo, and

wherein said controller controls a performance tempo of one or some of the plurality of parts in accordance with the detection data received via said motion detector and controls a performance tempo of other one or some of the plurality of parts in accordance with the tempo control data stored in said storage device.

64. A control system as claimed in claim 63 wherein said storage device is further adapted to store therein display data separately for the individual parts, and

wherein said controller reads out the display data from said storage device in accordance with separate performance tempo control for the at least two parts and causes a display device to display visual images based on the read-out display data.

65. A control system as claimed in claim 51 wherein tones of particular tone pitches are assigned respectively to said plurality of motion detectors, and said controller

controls, on the basis of the detection data from of said motion detectors, generation of the tones of the tone pitches corresponding to said motion detectors.

- 66. A control system as claimed in claim 51 which further comprises a transmitter adapted to transmit, to said motion detectors, guide data for providing a guide or assistance as to a motion to be made by the performer.
- 67. A control system as claimed in claim 51 wherein said performer is a human being.
- 68. A control system as claimed in claim 51 wherein said performer is an animal.
- 69. A control system as claimed in claim 51 wherein said performer is a stand-alone intelligent robot.
- 70. A control system as claimed in claim 51 wherein at least one of said motion detectors is held by a hand of the performer.
- 71. A control system as claimed in claim 51 wherein at least one of said motion detectors is attached to a body of the performer.
- 72. A motion detector for movement with a performer comprising:

a sensor adapted to detect a state of a motion of the performer;

a receiver adapted to receive guide data for providing a guide or assistance as to a motion to be made by the performer; and

a guide device coupled with said receiver for performing a guide function for the performer on the basis of the guide data received via said receiver.

- 73. A motion detector as claimed in claim 72 which further comprises a transmitter adapted to transmit said state of a motion detected via said sensor as detection data to be used for controlling a tone performance.
- 74. A motion detector as claimed in claim 73 wherein said guide device includes a light-emitting device, and said guide function is to inform the performer of tone generation timing by activating light emission of said light-emitting device.
- 75. A motion detector as claimed in claim 73 wherein said guide device includes a display device, and said guide function is to inform the performer of a tone volume value by displaying the tone volume value on said display device.
- 76. A motion detector as claimed in claim 72 wherein said motion detector is held by a hand of the performer.

- 77. A motion detector as claimed in claim 72 wherein said motion detector is attached to a body of the performer.
- 78. A motion detector as claimed as claimed 72 wherein said performer is a human being.
- 79. A motion detector as claimed in claim 72 wherein said performer is an animal.
- 80. A motion detector as claimed in claim 72 wherein said performer is a stand-alone intelligent robot.
- 81. A motion detector as claimed in claim 72 which further comprises a light-emitting device adapted to be subjected to light emission control in accordance with said state of a motion detected via said sensor.
- 82. A motion detector as claimed in claim 72 which further comprises a tone generator for generating a tone on the basis of said state of a motion detected via said sensor.
- 83. A control system comprising:
- a data generator adapted to generate guide data for providing a guide or assistance as to a motion to be made by a performer; and
 - a transmitter coupled with said data generator and



adapted to transmit the guide data, generated by said data generator, to a motion detector moving with the performer.

- 84. A control system as claimed in claim 83 which further comprises:
- а receiver adapted to receive detection data transmitted from a motion detector provided for movement with a performer, the detection data representing a state of a motion of the performer detected via a sensor that is included in said motion detector moving with the performer;
- a performance apparatus adapted to carry out a performance of a tone on the basis of performance data; and
- a controller coupled with said receiver and said performance apparatus and adapted to control said performance of a tone by said performance apparatus in accordance with the detection data received via said receiver.
- 85. A control system as claimed in claim 84 wherein control of the tone by said controller controls a tone volume of the tone to be performed by said performance apparatus.
- 86. A control system as claimed in claim 84 wherein control of the tone by said controller controls a tempo of



the tone to be performed by said performance apparatus.

- 87. A control system as claimed in claim 84 wherein control of the tone by said controller controls performance timing of the tone to be performed by said performance apparatus.
- 88. A control system as claimed in claim 84 wherein control of the tone by said controller controls a tone color of the tone to be performed by said performance apparatus.
- 89. A control system as claimed in claim 84 wherein control of the tone by said controller controls an effect of the tone to be performed by said performance apparatus.
- 90. A control system as claimed in claim 84 wherein control of the tone by said controller controls a tone pitch of the tone to be performed by said performance apparatus.
- 91. A control system as claimed in claim 84 wherein the performance data is automatic performance data, and said performance apparatus performs a tone on the basis of the automatic performance data.
- 92. A control system as claimed in claim 83 wherein said

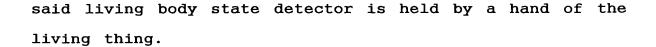
motion detector is held by a hand of the performer.

- 93. A control system as claimed in claim 83 wherein said motion detector is attached to a body of the performer.
- 94. A control system as claimed as claimed 83 wherein said performer is a human being.
- 95. A control system as claimed in claim 83 wherein said performer is an animal.
- 96. A control system as claimed in claim 83 wherein said performer is a stand-alone intelligent robot.
- 97. -- - A living -- body -- state -- detector -- comprising: ----
 - a sensor adapted to detect a body state of a living thing; and
 - a transmitter coupled with said sensor and adapted to transmit, to a control system carrying out a tone performance, the body state, detected via said sensor, as body state data to be used for control of the tone performance.
 - 98. A living body state detector as claimed in claim 97 wherein the body state detected via said sensor is at least one of a pulse, heart rate, number of breaths, skin resistance, blood pressure, body temperature, brain wave and eyeball movement.

- 99. A living body state detector as claimed in claim 97 wherein said living body state detector is held by a hand of the living thing.
- 100. A living body state detector as claimed in claim 97 wherein said living body state detector is attached to a body of the living thing.
- 101. A living body state detector as claimed in claim 97 which further comprises:
- a motion sensor adapted to detect a state of a motion of the living thing; and
- a transmitter coupled with said motion sensor and adapted to transmit detection data representing said state of a motion detected via said motion sensor.
- 102. A living body state detector as claimed in claim 101 wherein said living body state detector is held by a hand of the living thing.
- 103. A living body state detector as claimed in claim 101 wherein said living body state detector is attached to a body of the living thing.
- 104. A living body state detector as claimed in claim 97 which further comprises a receiver adapted to receive guide data for providing a guide or assistance as to a motion to be made by the living thing.

- 105. A living body state detector as claimed in claim 97 wherein the control of the tone performance controls a tone volume of the tone to be performed.
- 106. A living body state detector as claimed in claim 97 wherein the control of the tone performance controls a tempo of the tone to be performed.
- 107. A living body state detector as claimed in claim 97 wherein the control of the tone controls performance timing of the tone to be performed.
- 108. A living body state detector as claimed in claim 97 wherein the control of the tone performance controls a tone color of the tone to be performed.
- 109. A living body state detector as claimed in claim 97 wherein the control of the tone performance controls an effect of the tone to be performed.
- 110. A living body state detector as claimed in claim 97 wherein the control of the tone performance controls a tone pitch of the tone to be performed.
- 111. A living body state detector as claimed in claim 97 wherein the tone performance is carried out on the basis of automatic performance data.

- 112. A living body state detector as claimed in claim 97 wherein said living thing is a human being.
- 113. A living body state detector as claimed in claim 97 wherein said living thing is an animal.
- 114. A control system comprising:
- a receiver adapted to receive body state data transmitted from a living body state detector, the body state data representing a body state of a living thing detected via a sensor that is included in said living body state detector:
- a performance apparatus adapted to carry out a performance of a tone on the basis of performance data; and
- a controller coupled with said receiver and said performance apparatus and adapted to control said performance of a tone by said performance apparatus in accordance with the body state data received via said receiver.
- 115. A control system as claimed in claim 114 wherein the body state represented by the body state data is at least one of a pulse, heart rate, number of breaths, skin resistance, blood pressure, body temperature, brain wave and eyeball movement.
- 116. A control system as claimed in claim 114 wherein



- 117. A control system as claimed in claim 114 wherein said living body state detector is attached to a body of the living thing.
- 118. A control system as claimed in claim 114 wherein said receiver is further adapted to receive detection data, the detection data being transmitted from a motion detector provided for movement with the living thing and representing a state of a motion of the living thing, and

wherein said controller is adapted to control said performance of a tone by said performance apparatus, on the basis of the body state data and the detection data.

- 119. A control system as claimed in claim 118 wherein said living body state detector and said motion detector are held by a hand of the living thing.
- 120. A control system as claimed in claim 118 wherein said living body state detector and said motion detector are attached to a body of the living thing.
- 121. A control system as claimed in claim 118 which further comprises a transmitter adapted to transmit, to said motion detector, guide data for providing a guide or

assistance as to a motion to be made by the living thing.

- 122. A control system as claimed in claim 114 wherein control of said performance of a tone by said controller controls a tone volume of the tone to be performed.
- 123. A control system as claimed in claim 114 wherein control of said performance of a tone by said controller controls a tempo of the tone to be performed.
- 124. A control system as claimed in claim 114 wherein control of the performance of a tone by said controller controls performance timing of the tone to be performed.
- 125. A control system as claimed in claim 114 wherein control of the performance of a tone by said controller controls a tone color of the tone to be performed.
- 126. A control system as claimed in claim 114 wherein control of the performance of a tone by said controller controls an effect of the tone to be performed.
- 127. A control system as claimed in claim 114 wherein control of the performance of a tone by said controller controls a tone pitch of the tone to be performed.
- 128. A control system as claimed in claim 114 wherein

said performance of a tone is carried out on the basis of automatic performance data.

- 129. A control system as claimed as claimed 114 wherein said living thing is a human being.
- 130. A control system as claimed in claim 114 wherein said living thing is an animal.
- 131. A control system comprising:
- a receiver adapted to receive body state data of a plurality of living things transmitted from a plurality of living body state detectors associated with the plurality of living things, each of the body state data representing a body state of one of the living things detected via a sensor that is included in said living body state detector associated with the one living thing;
 - a performance apparatus adapted to carry out a performance of a tone on the basis of performance data; and
 - a controller coupled with said receiver and said performance apparatus and adapted to control said performance of a tone by said performance apparatus in accordance with the body state data of the plurality of living things received via said receiver.
 - 132. A control system as claimed in claim 131 wherein the body state represented by the body state data is at

least one of a pulse, heart rate, number of breaths, skin resistance, blood pressure, body temperature, brain wave and eyeball movement.

- 133. A control system as claimed in claim 131 wherein each of said living body state detectors is held by a hand of one of the living things.
- 134. A control system as claimed in claim 131 wherein each of said living body state detectors is attached to a body of one of the living things.
- A control system as claimed in claim 131 wherein 135. said receiver is further adapted to receive detection data from a plurality of motion detectors associated with the plurality of living things and provided for movement with corresponding ones of the living things, each of said motion detectors transmitting the detection data representing a state of a motion of the corresponding living thing, and

wherein said controller is adapted to control said performance of a tone by said performance apparatus, on the basis of the body state data and the detection data of the plurality of living things.

136. A control system as claimed in claim 135 wherein each of said living body state detectors and said motion detectors is held by a hand of the corresponding living

thing.

- 137. A control system as claimed in claim 135 wherein each of said living body state detectors and said motion detectors is attached to a body of the corresponding living thing.
- 138. A control system as claimed in claim 135 which further comprises a transmitter adapted to transmit, to each of said motion detectors, guide data for providing a guide or assistance as to a motion to be made by the living thing.
- 139. A control system as claimed in claim 131 wherein control of said performance of a tone by said controller controls a tone volume of the tone to be performed.
- 140. A control system as claimed in claim 131 wherein control of said performance of a tone by said controller controls a tempo of the tone to be performed.
- 141. A control system as claimed in claim 131 wherein control of the performance of a tone by said controller controls performance timing of the tone to be performed.
- 142. A control system as claimed in claim 131 wherein control of the performance of a tone by said controller controls a tone color of the tone to be performed.

- 143. A control system as claimed in claim 131 wherein control of the performance of a tone by said controller controls an effect of the tone to be performed.
- 144. A control system as claimed in claim 131 wherein control of the performance of a tone by said controller controls a tone pitch of the tone to be performed.
- 145. A control system as claimed in claim 131 wherein the performance of a tone is carried out on the basis of automatic performance data.
- 146. A control system as claimed as claimed 131 wherein each of said living things is a human being.
- 147. A control system as claimed in claim 131 wherein each of said living things is an animal.
- 148. A control apparatus for controlling readout of timeserial data, said control apparatus comprising:
- a storage device adapted to store therein time-serial data of a plurality of data groups;
- a data supplier adapted to supply tempo control data for each of the data groups; and
- a readout controller coupled with said storage device and said data supplier and adapted to read out the timeserial data of the plurality of data groups from said storage device at a predetermined readout tempo, said

readout controller being adapted to control the readout tempo for each of the data groups in accordance with the tempo control data supplied by said data supplier for the data group.

- 149. A control apparatus as claimed in claim 148 wherein the tempo control data for each of the data groups is stored in said storage device along with the time-serial data for the data group, and wherein said data supplier reads out, from said storage device, the tempo control data for each of the data groups and thereby supplies the tempo control data to said readout controller.
- 150. A control apparatus as claimed in claim 148 wherein said data supplier generates the tempo control data for each of the data groups on the basis of control data transmitted from a plurality of controllers.
- 151. A control apparatus as claimed in claim 150 wherein each of said control data represents a state of a motion made by a performer operating a corresponding one of said controllers.
- 152. A control apparatus as claimed in claim 150 wherein each of said control data represents a body state of a performer operating a corresponding one of said controllers.

- 153. A control apparatus as claimed in claim 148 wherein the tempo control data for each of the data groups, supplied to said readout controller by said data supplier, is further adapted to be written into said storage device.
- 154. A control apparatus as claimed in claim 148 wherein said data supplier generates first tempo control data on the basis of control data transmitted from one or more controllers and generates second tempo control data by reading out tempo control data stored in said storage device, and

wherein said readout controller controls the readout tempo of one or some of the time-serial data of the plurality of data groups on the basis of said first tempo control data and controls the readout tempo of other one or some of the time-serial data of the plurality of data groups on the basis of said second tempo control data.

155. A control apparatus as claimed in claim 148 wherein said data supplier is further adapted to generate modification data on the basis of control data transmitted from a controller and modify the tempo control data for each of the data groups on the basis of the modification data, and

wherein said readout controller controls the readout tempo for each of the data groups on the basis of the tempo control data for each of the data groups modified on the basis of the modification data.

156. A control apparatus as claimed in claim 148 wherein said storage device is further adapted to store therein display data corresponding to the plurality of data groups, and

wherein said readout controller is further adapted to read out the display data from said storage device on the basis of the tempo control data for each of the data groups supplied by said data supplier and cause a display device to display a visual image based on the display data read out from said storage device.

- 157. A control apparatus as claimed in claim 148 wherein said time-serial data are performance data.
- 158. A control apparatus as claimed in claim 148 wherein said time-serial data are image data.
- 159. A light-emitting toy comprising:
- a sensor provided for movement with a motion of a performer to detect a state of the motion of the performer;
 - a light-emitting device; and
- a controller coupled with said sensor and said lightemitting device and adapted to control a style of light emission of said light-emitting device on the basis of the state of the motion detected via said sensor.

160. A light-emitting toy as claimed in claim 159 wherein a plurality of the sensors are provided in corresponding relation to a plurality of axes so that the state of the motion for each of the axes may be detected via a different one of said sensors, and

wherein said controller controls the style of light emission of said light-emitting device on the basis of the state of the motion for each of the axes detected via said sensor.

- 161. A light-emitting toy as claimed in claim 159 which further comprises a body state detector for detecting a body state of the performer.
- wherein said controller is adapted to control the style of light emission of said light-emitting device in accordance with the body state detected via said body state detector.
 - 163. A light-emitting toy as claimed in claim 161 which further comprises a storage device, and wherein said controller is further adapted to store, into said storage device, the body state detected via said body state detector.
 - 164. A light-emitting toy as claimed in claim 163 wherein said controller is further adapted to store, into



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said storage device, the state of the motion of the performer detected via said sensor.

165. A light-emitting toy as claimed in claim 159 which further comprises a receiver coupled with said controller and adapted to receive data transmitted from outside said light-emitting toy, and wherein said controller is further adapted to control the style of light emission of said light-emitting device on the basis of the data received via said receiver.

166. A method for controlling a performance of a tone on the basis of detection data transmitted from a motion detector, said method comprising the steps of:

receiving detection data transmitted from said motion detector provided for movement with a performer, the detection data representing a state of a motion of the performer detected via a sensor that is included in said motion detector moving with the performer;

carrying out a performance of a tone on the basis of performance data;

analyzing the motion of the performer on the basis of the detection data received via said step of receiving and thereby generating a plurality of analyzed data; and

controlling said performance of a tone carried out via said step of carrying out, in accordance with the plurality of analyzed data generated via by said step of analyzing.



167. A method for transmitting detection data corresponding to a motion of a performer, said method comprising the steps of:

detecting a plurality of states of a motion of the performer by use of a sensor that is included in a motion detector provided for movement with the performer; and

transmitting detection data representing each of said plurality of states of a motion detected via said step of detecting.

168. A method for controlling a performance of a tone on the basis of detection data transmitted from a motion detector, said method comprising the steps of:

receiving a plurality of detection data transmitted from a single motion detector provided for movement with a performer, each of the detection data representing a state of a motion of the performer detected via a sensor that is included in said motion detector moving with the performer;

carrying out a performance of a tone on the basis of performance data; and

controlling said performance of a tone by said step of carrying out, in accordance with each of the detection data received via said receiving.

169. A method for controlling a performance of a tone on the basis of detection data transmitted from a motion detector provided for movement with a performer, said

method comprising the steps of:

receiving detection data transmitted from a plurality of the motion detectors, each of the detection data representing a state of a motion of the performer detected via a sensor that is included in a corresponding one of said motion detectors moving with the performer;

carrying out a performance of a tone on the basis of performance data; and

controlling said performance of a tone by said step of carrying out, in accordance with each of the detection data received from said motion detectors.

170. A method for providing guide data for a performer operating a motion detector, said method comprising the steps_of:______

detecting a state of a motion of the performer by use of said motion detector moving with the performer;

receiving, from an outside, guide data for providing a guide or assistance as to a motion to be made by the performer; and

performing a guide function for the performer operating said motion detector, on the basis of the guide data received via said step of receiving.

171. A method for providing guide data for a performer operating a motion detector, said method comprising the steps of:

generating guide data for providing a guide or





assistance as to a motion to be made by a performer; and transmitting the guide data, generated by said step of generating, to said motion detector moving with the performer.

172. A method for controlling, by use of a living body state detector, a tone performance in a control system carrying out the tone performance, said method comprising the steps of:

detecting a body state of a living thing by use of said living body state detector; and

transmitting, to the control system carrying out the tone performance, the body state, detected via said step of detecting, as body state data to be used for control of the tone performance.

173. A method for controlling a tone performance by use of a living body state detector for detecting a body state of a living thing, said method comprising the steps of:

receiving body state data transmitted from said living body state detector, the body state data representing a body state of a living thing detected via said living body state detector;

carrying out a performance of a tone on the basis of performance data; and

controlling said performance of a tone by said step of carrying out, in accordance with the body state data received via said step of receiving.





174. A method of controlling a tone performance by use of a living body state detector for detecting a body state of a living thing, said method comprising the steps of:

receiving body state data of a plurality of living things transmitted from a plurality of the living body state detectors associated with the plurality of living things, each of the body state data representing a body state of one of the living things detected via a sensor that is included in said living body state detector associated with the one living thing;

carrying out a performance of a tone on the basis of performance data; and

controlling said performance of a tone by said step of carrying out, in accordance with the body state data of the plurality of living things received via said step of receiving.

175. A method for controlling readout of time-serial data of a plurality of data groups stored in a storage device, said method comprising the steps of:

supplying tempo control data for each of the data groups; and

reading out the time-serial data of the plurality of data groups from said storage device at a predetermined readout tempo, said step of reading out controlling the readout tempo for each of the data groups in accordance with the tempo control data supplied via said step of supplying for the data group.



176. A method for controlling light emission of a lightemitting device, said method comprising the steps of:

detecting a state of a motion of a performer by use of a sensor; and

controlling a style of light emission of said lightemitting device on the basis of the state of the motion detected via said step of detecting.

177. A machine-readable storage medium containing a group of instructions to cause said machine to implement a method for controlling a performance of a tone on the basis of detection data transmitted from a motion detector, said method comprising the steps of:

receiving detection data transmitted from said motion detector provided for movement with a performer, the detection data representing a state of a motion of the performer detected via a sensor that is included in said motion detector moving with the performer;

carrying out a performance of a tone on the basis of performance data;

analyzing the motion of the performer on the basis of the detection data received via said step of receiving and thereby generating a plurality of analyzed data; and

controlling said performance of a tone carried out via said step of carrying out, in accordance with the plurality of analyzed data generated via by said step of analyzing.

178. A machine-readable storage medium containing a group



of instructions to cause said machine to implement a method for transmitting detection data corresponding to a motion of a performer, said method comprising the steps of:

detecting a plurality of states of a motion of the performer by use of a sensor that is included in a motion detector provided for movement with the performer; and

transmitting detection data representing each of said plurality of states of a motion detected via said step of detecting.

179. A machine-readable storage medium containing a group of instructions to cause said machine to implement a method for controlling a performance of a tone on the basis of detection data transmitted from a motion detector, said method comprising the steps of:

receiving a plurality of detection data transmitted from a single motion detector provided for movement with a performer, each of the detection data representing a state of a motion of the performer detected via a sensor that is included in said motion detector moving with the performer;

carrying out a performance of a tone on the basis of performance data; and

controlling said performance of a tone by said step of carrying out, in accordance with each of the detection data received via said receiving.

180. A machine-readable storage medium containing a group



of instructions to cause said machine to implement a method for controlling a performance of a tone on the basis of detection data transmitted from a motion detector provided for movement with a performer, said method comprising the steps of:

receiving detection data transmitted from a plurality of the motion detectors, each of the detection data representing a state of a motion of the performer detected via a sensor that is included in a corresponding one of said motion detectors moving with the performer;

carrying out a performance of a tone on the basis of performance data; and

controlling said performance of a tone by said step of carrying out, in accordance with each of the detection data received from said motion detectors.

181. A machine-readable storage medium containing a group of instructions to cause said machine to implement a method for providing guide data for a performer operating a motion detector, said method comprising the steps of:

detecting a state of a motion of the performer by use of said motion detector moving with the performer;

receiving, from an outside, guide data for providing a guide or assistance as to a motion to be made by the performer; and

performing a guide function for the performer operating said motion detector, on the basis of the guide data received via said step of receiving.





182. A machine-readable storage medium containing a group of instructions to cause said machine to implement a method for providing guide data for a performer operating a motion detector, said method comprising the steps of:

generating guide data for providing a guide or assistance as to a motion to be made by a performer; and

transmitting the guide data, generated by said step of generating, to said motion detector moving with the performer.

183. A machine-readable storage medium containing a group of instructions to cause said machine to implement a method for controlling, by use of a living body state detector, a tone performance in a control system carrying out the tone performance, said method comprising the steps of:

detecting a body state of a living thing by use of said living body state detector; and

transmitting, to the control system carrying out the tone performance, the body state, detected via said step of detecting, as body state data to be used for control of the tone performance.

184. A machine-readable storage medium containing a group of instructions to cause said machine to implement a method for controlling a tone performance by use of a living body state detector for detecting a body state of a living thing, said method comprising the steps of:



receiving body state data transmitted from said living body state detector, the body state data representing a body state of a living thing detected via said living body state detector;

carrying out a performance of a tone on the basis of performance data; and

controlling said performance of a tone by said step of carrying out, in accordance with the body state data received via said step of receiving.

185. A machine-readable storage medium containing a group of instructions to cause said machine to implement a method of controlling a tone performance by use of a living body state detector for detecting a body state of a living thing, said method comprising the steps of:

receiving body state data of a plurality of living things transmitted from a plurality of the living body state detectors associated with the plurality of living things, each of the body state data representing a body state of one of the living things detected via a sensor that is included in said living body state detector associated with the one living thing;

carrying out a performance of a tone on the basis of performance data; and

controlling said performance of a tone by said step of carrying out, in accordance with the body state data of the plurality of living things received via said step of receiving.



186. A machine-readable storage medium containing a group of instructions to cause said machine to implement a method for controlling readout of time-serial data of a plurality of data groups stored in a storage device, said method comprising the steps of:

supplying tempo control data for each of the data groups; and

reading out the time-serial data of the plurality of data groups from said storage device at a predetermined readout tempo, said step of reading out controlling the readout tempo for each of the data groups in accordance with the tempo control data supplied via said step of supplying for the data group.

187. A machine-readable storage medium containing a group of instructions to cause said machine to implement a method for controlling light emission of a light-emitting device, said method comprising the steps of:

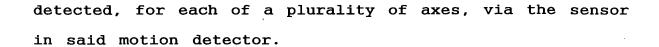
detecting a state of a motion of a performer by use of a sensor; and

controlling a style of light emission of said lightemitting device on the basis of the state of the motion detected via said step of detecting.

188. A signal to be transmitted comprising:

ID data corresponding to a sensor included in a motion detector; and

detection data representing a state of a motion



- 189. A signal to be transmitted as claimed in claim 188 wherein said detection data representing a state of a motion is acceleration data.
- 190. A signal to be transmitted comprising: time-serial data of a plurality of data groups; and tempo control data for controlling a reproduction tempo of the time-serial data for each of the data groups.
- 191. A signal to be transmitted as claimed in claim 190 wherein the time-serial data are performance data.
- 192. A signal to be transmitted as claimed in claim 190 wherein the time-serial data are image data.